PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Docket No: Q97406

Jae Won YOU, et al.

Appln. No.: 10/599,680

Group Art Unit: 1614

Confirmation No.: 2749

Examiner: Nelson Clarence Blakely III

Filed: June 19, 2007

For:

PENTAERYTHRITOL DERIVATIVES AND A METHOD FOR PREPARATION

THEREOF, AND LIQUID CRYSTAL BASE CONTAINING THE SAME

SUBMISSION OF EXECUTED DECLARATION UNDER 37 C.F.R. §1.132

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Submitted herewith is a copy of an executed Declaration Under 37 C.F.R. §1.132 signed

by Mr. Jae Won You.

Respectfully submitted,

/Sunhee Lee/

SUGHRUE MION, PLLC

Telephone: (202) 293-7060

Facsimile: (202) 293-7860

 $\begin{array}{c} \text{washington office} \\ 23373 \end{array}$

CUSTOMER NUMBER

Date: May 15, 2009

Sunhee Lee

Registration No. 53,892

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DECLARATION UNDER 37 C.F.R. § 1.132

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Sir:

1. 1, Jae Won You , hereby declare and state:

THAT I am a citizen of Republic of Korea;

THAT I have received the degree of <u>Master</u> in <u>industrial and engineering chemistry</u>
from <u>Seoul National University</u>; and

THAT I have been employed by Amorepacific Corporation since <u>February 1, 1999</u>, where I hold a position as <u>Principal Scientist</u>, with responsibility for <u>Fine & Biochemical</u>

Research.

2. I reviewed the office action dated February 17, 2009 issued in the instant patent application and performed the following tests in order to show unexpectedly superior effects of

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the compound defined in claim 1 of the application. All the tests were performed by me or under my supervision.

3. Experiments and Results

To verify the unexpected results of the claimed compound compared with those disclosed in the cited references and other pentaerythritol compounds, the moisture retaining ability of the tested compounds were measured as follows. Specifically, samples were prepared such that the moisture content of the compounds was 60%, and while the samples were kept in a constant temperature and humidity chamber (18°C, RH20%), the weight change of the samples was observed over time, thereby enabling evaluation of the changes in moisture content.

The results are in the following table.

| Pentaerythritol compounds | Percentage of moisture in sample (%) | | | | |
|---------------------------------------|--------------------------------------|--------|---------|---------|---------|
| | Initial (hour 0) | 1 hour | 2 hours | 4 hours | 6 hours |
| Crothix of Linares | 60 | 46 | 35 | 28 | 24 |
| Pentaerythritol of Mitsuno | 5* | 3 | 3 | 2 | 2 |
| Pentaerythrityl isosterate | 2 * | 1. | 1 | 1 | 1 |
| Example 34 of the present application | 60 | 58 | 56 | 49 | 45 |

In an attempt to have pentaerythritolof Mitsuno and pentaerythrityl isosterate absorb moisture to 60% (so that the initial conditions of all samples are the same), they were left in humid condition for a long time. However, these compounds couldn't absorb moisture at all, and

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thus the experiment was performed using the sample with the moisture contents of the values indicated in table.

As can be seen in the above Table, pentaerythritol compounds of the present invention (Example 34) showed high moisture retaining ability compared with the compounds in Linares and Mitsuno, and other pentaerythritol derivative.

I declare further that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Date: May 14, 2009.